## POPULAR A FOCUS MAGAZINES PUBLICATION

## OMPUTING

WEEKLY

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## ew virus shocker

THE Amiga Virus has found its way on to official software from a London dealer. The problem seems to be caused by illop demonstration machines being infected and the virus then passing to demonstration copies of the game.

Three out of 20 copies of the Electropic Arts Test Drive at GMB Electronics in London's Tottenham Court Road produced the familiar message "Something wenderful has happened. Your Amiga is

A GMB spokesperson confirmed that the 17 virus-free copies had since been sold.

"People were desperate for it. We informed them that the games the sames only to people familiar to the Amiga who would know what to do if the virus appeared," a spokesperson said. At first, Mark Lewis, European

publisher of Electronic Arts was under the impression that the problem with the copies of Test Drive 2 Test Drive was caused by people trying to load the game prematurely. When told that the virus message had appeared, he denied that the virus was present at Electronic Arts.

"There is no way the copies could have come straight from the duplicator. There is no Amiga involved in the process," he said. It was his oninion that the games



were not pristine copies. The spokesperson for GMB Electronics was adamant. "The copies came direct via courier from Electronic Arts. So far as we are concerned, they are the genuine

thing." It is possible for Virus to get on to discs, since new discs are sent continued on page 7 1

## Gremlin's film ac



first live-action film to have been created from a toy-line and, having acquired its exclusive licence, Gremlin recently released a computer game based on the film. Gremlin boss, lan Stewart, is 'absolutely confident' that the game will be a success, predomin-

MASTER Of The Universe is the antly because Cannon had an almost unlimited budget in promoting the film. "It was one of the best organised launches concerning a film company," said Stewart.

No child could have escaped the Masters mania over Christmas and Gremlin were there riding on the back of all the hype.

Pizza Hut and the Daily Mirror were among those giving special offers on the Masters film and associated products.

Stewart's faith in the product was reflected by the fact that the game actually pre-empted the film's Boxing Day release by ten days. Normally, the game version would follow the film a few months later, in case the film flopped. Many film-licensed games de-

viate from the actual storyline, merely using the main character. According to Stewart, the Masters Of The Universe computer game remains faithful to the motion picture. Five key elements from the film have been chosen and Gremlin has

made these into different parts of the game, providing considerable variation in gameolay. In addition, some of the char-

acters of the film are also incorpocontinued on page 6



hristmas is over for another year. As the nation prepares to turn its back on all those socks, book tokens and, yes, computers, we cannot help wondering what will be the big deal for Christmas 1988.

Think it through. There is clearly a gap opening in the now ageing games computer market. After six or seven years the market for games computers has crystallised with a number of groups - the youngsters playing games for the first time, dedicated users of a particular machine, and older users who started on a Spectrum and now use an

Amiga or Atari.

In those circumstances the whole affair starts to look rather tired. All the machines on offer, brilliant though they are, are variations on a now elderly and rather limited format. It happens to be a format successful enough to pay many salaries, but the keyboard/joystick/monitor way of manipulating blobs of colour, on New Year's Eve. looks distinctly passé.

The vast sales of the Atari ST during the festive season have proved that it still has a strong attraction but are we really to believe that the combined brains of Atari, Commodore, Amstrad and the rest can provide nothing better? If that is the case, the market will surely stagnate in

two years at heet.

It is obvious that a radical injection of new life must and will be put into games computing. It must be for new people to be attracted to it as a leisure activity. We are often told that the market is "growing up", although this is more often cited as evidence of a shift towards 16-bit machines. As a self-fulfilling prophecy on the part of hardware manufacturers it sounds limiting.

Atari has already nailed its colours to the mast of the future with its soon-come CD-Rom machine. Obviously that kind of interactive video/computer game concept is the thing of the future, but whereas some see it happening in five years, there is every reason to suspect that the late 1980s will mark its arrival in a big way.

One company has its finger in several of these pies already. It has also proved its ability to bring new combinations of existing technologies to the market at an exceptionally low price. For Christmas 1988 look for the Amstrad interactive CD unit.

John Brissenden

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NEWS DESK......1-7 Amiga virus crops up on commercial software . . . Elite unveils lower price for new 16-bit range ... PCW9512 sales disap-

point . . . Code Master hot shots the brothers Darling sign autographs

BONECRUNCHER COMPETITION .....

of Electronic Arts affiliate label Nexus

Your chance to win a copy of Superiors latest game for the Commodore 64 and BBC B

NEWS ANALYSIS .... Nikki Carvey reports on the reasons behind the recent demise

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Tony Sachs tries the Synth Works package for the Yamaha DX-7 synthesisers

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Jinxter on the ST is Game of the Week, plus Microlennus Wrestling, Scruples, Out Run, Mad Balls, Rainbow Dragon, Marble Madness, Andy Capp, Jet Bike, Basket Master, California Games, Galactic Games and Bubble Bobble, All fully reviewed

Peter Worlock tests out JCL's Digipic video digitiser for the Amiga

DISCIPLE ON THE CHEAP? ......28 John Wase reviews the +D disc interface from Miles Gordon Technology

LISTINGS

A selection of programs for you to type into your machine

Neil Scrimgeour of Sigma Software Designs proposes a Software Programmers Union

## Elite makes 16-bit debut in '88



Buggy Boy on the ST

ELITE has announced details about a range of software to be made available for the Atari ST and Amiga computers.

According to Geoff Grimes. Elite's marketing manager, "The earliest release of the games for the 16-bit machines is March, we hope to have the whole catalogue completed by about the middle id the year."

Titles to im made available will include Space Harrier, Buggy Boy, Battleships and also Paper

Boy. The titles look likely to be released on the ST first and then the Amiga later. Grimes said. "We're very much

looking forward to bringing out 16bit conversions. It opens up m whole new market." Elite was very concerned about

the pricing of the software. "It's very important that the industry doesn't out-price itself. We're looking at keeping the releases below \$15," Grimes added. But Geoff Heath, project man

ager of Mastertronic whose 16-bit products retail at \$9.95 for budget and £19.85 for full price, said, "If the product is good enough it shouldn't go below \$19.95."

Heath added that in order to justify a \$19.95 release, the product had to be of a high enough

standard for Mastertronic to

Another company which has been in the forefront of 16-bit software is Electronic Arts. An Electronic Arts spokesperson sald that because of the way Electronic Arts is positioned, there is no need to reduce the price of its Mahit software. "We're aimed at the top end of the market and produce software of the highest quality which can take two or three years

to develop, such as Star Flight." Despite the fact the other software houses are dropping their prices, the spokesperson was adamant that Electronic Arts will keep their prices at \$24.85.

"There is no plan to drop prices in the foreseeable future," she

## slice of Atari's DTP package deal

it would be using Mirrorsoft's Fleet Street Publisher software as part of a new complete deaktop publishing package. Pat Bitton, marketing director

of Mirrorsoft was delighted that Atari had decided to use its software, since Mirrorsoft had worked with Atari during the development of its Fleet Street Publisher.

"Fleet Street is an all-British product," she enthused, "using the technological expertise uniquely available to us as part of a major



Les Player - Mari's European Technical

tion. Both dealers and end users can rest assured that the product will be well supported by knowledgeable technical staff, and that Mirrorsoft as a company is wellpositioned to meet future market requirements."

The system that dealers and distributors will receive comprises a Mega 2 or 4 ST, a monochrome monitor, 10 or 20 megabyte hard drive, SLM804 laser printer, Floor Street Publisher 1.1, with SLM804 driver and the 1st Word word

Atari's technical runager, Les Player, was also pleased with the deal, saving, "Atari has selected Fleet Street Publisher due its flexible level of usage. Combined with the Atari Laser Printer and Mega ST, we now have a Desk Top Publishing package suitable for both the novice and experienced professional user."

However, since the system costs between \$2000 and \$3000, depending on the configuration of hardware. It is unlikely that many novices will be able to afford it.

## Fleet Street gets Amstrad PPC to help out Prince



THE PRINCE of Wales recently received, on behalf of Business in the Community, a charity of which he is president, an Amstrad portable from Alan Sugar. One of Prince Charles' inner city

projects, BiC has been established for six years, its aim being to promote the involvement of companies in the community. BiC encourages different parts of the community to get together and co-operate on schemes such as job creation and training.

There are about 300 members. primarily from the private sector but also incorporating trade unions, voluntary organisations, local authorities and government departments. Through the BiC network of Enterprise Agencies, such hodies often sponsor people wanting to start their own

Based in London, INC also has almost 300 small regional offices. It is hoped that the Amstrad donation will help to tighten the network of regional communication and, according to a BiC spokesperson, "Help us to help other people to put money into these projects."

In addition in the portable, Amstrad has also given a number of PC 1640 computers, an undisclosed cash grand and computer training

Stephen O'Brien, chief executive of BiC is very pleased with the Amstrad offer, saying: "We are delighted to have been given this equipment and most grateful to Amstrad for its generosity. This will be a great help to us in improving communication with our regional network."

## PCW 9512 lifts at last

THE Amstrad 9512 Word Processor, which is the successor to the extremely successful 8256 Word Processor, does not appear to be doing as well as Amstrad expected. A leading computer dealer has said. "It's not as popular as everyone thinks!

The dealer out the unpopularity down to several reasons. "The end user has been disappointed with the printer, as it's noisy and not very good quality. We're selling more 8256 than 9512."

But leading Amstrad supplier Rymans said that the machine is starting to gain sales. A spokes person said. "Sales are now picking up at last. One shop received three machines on a Friday and by Monday they were all sold. So far we haven't had any complaints from users."

WH Smith's at present do not stock the 9512, but a spokesperson said that they would consider stocking it in the near future since they have no reason not to.

An Amstrad spokesperson said: "It's a super machine and the printer quality is very good. We've had no real complaints.



## Sega success for Tasword gets boost from Dutch banks Mastertronic TASMAN Software has secured an small market, largely ignored by



MASTERTRONIC is reporting that sales of its Sega Mastersystem have now exceeded over 30,000 units, with software sales approaching 100,000.

The success of the sales has meant that \$5 million worth of stock has been sold.

Rachel Davies, Mastertronic marketing manager said: "We're very pleased with the way it has been selling even though we haven't done any major advertising

Mastertronic has also announced details of a new range of cartridges and add-ons to be available for the Sega during 1988.

"We've got 12 new titles coming out over the next counte of months including Zaxxon 3-D, Alien Syn

drome and After Burner," Davies Davies was particularly enthu-

siastic about After Burner, "If you thought Out Run was big, After Burner is huge. It has to be seen."

The two add-ons Mastertronic are bringing out are 8-D glasses at \$39.95 to enable the purchaser to play Zaxxon 3-D in real and Light Phaser at \$44.85 so you can start us shoot up your television screen with some of the new range of games Mastertronic intend to release.

No final prices have been set on the cartridges as there is a fluctuation in the price of the Yen from Japan where Mastertronic imports the cartridges.

agreement with two major Dutch banks to supply them with the Tasword word processing program. The deal evolved through Tasman's licensee in Holland - Filesoft - who for the last four years

has been translating and marketing Tasword and other products. At an exhibition last year, Filosoft and Tasman were approached by Olivetti, who was in the process. of negotiating a contract to supply large Dutch banks with computers

and associated software. It was this meeting that eventually resulted in Tasman securing its major coup Simon Howarth, on behalf of

Tasman, was very pleased with the new collaboration, saving: "It is a the very big boys but one which is nice and contained for a company like ourselves." Howarth refused to disclose the

sums of money involved but since the banks have already bought and paid for about 12,000 Taswords, the amount is likely to be considerable. This money will be paid to Tasman on a royalty basis - a percentage of the total sales. Howarth added that a further

deal may be on the way since the banks were looking at the Tasman spelling checker, and a number of other products. It is thought that the banks may also take English versions of the checkers, to help them when writing letters in foreign languages.

## **Mega-Apocalypse gets** January Spectrum debut

releasing the much long awaited Mega-Apocalypse for the Originally written by Crass

Comets' author Simon Nicol, the game was converted by John Wilson, with the graphics depicted by Malcolm Smith.

Bailed as the 'Arcade Game

features digitised speech samples and sound effects, 360 degree rotating pods and is described as a fast-action game.

Mega-Apocalupse will retail at \$8.89 with a +3 version to follow at \$14,99.

Also to follow are Amstrad ver sions priced at \$9.99 and \$14.

## i CD cut Accolade

HITACHI has initiated pricecutting in the CD-ROM market. having reduced its CDR 2500 by 40 per cent, to \$595.

Currently with sixty per cent of the world market share, Hitachi is

rated in the game, so that the player does not get bored of just He-Man and Skeleton

The Masters Of The Universe saga is set to continue all this year too, as Gremlin are working on a follow-up game to be released in

April. Entitled Evil Hoards, it is not another film tie-up but is once again based on the exploits of everyone's favourite cartoon hero. Ho.Mon

set to keep this during 1988. Nick Rogers, marketing manager of Hitachi New Media Products, predicts that the New Year will bring further price cuts in CD-ROMs as other companies follow Hitachi's

It is also offering a \$145 discount off its new second generation (combined audio and data storage) drives when bundled with Microsoft's Bookshelf - for which

Hitachi is the U.K. distributor. Costing \$195, the Bookshelf software in aimed at writers, researchers and teachers and contains ten of the most useful reference works to help them.

Special discounts are being offered to universities, colleges and schools in the government sponsored ECCTIS scheme under which details of some 50,000 courses and broadcast education programmes are on one 552 Mbyte compact disc.

## double from **Electronic Arts**

details concerning the release of two new games from Accolade. The two titles are The Train: Escape to Normandy and Power at Sea.

The Train is a strategic action game set in 1944 in Normandy. The plot concerns the Germans who are about to pull out of occupied France and take with them priceless French art treasures to

As a member of the French resistance you must stop them and

Normandy. Power at Sea is also set during

WW2. This time you are at the helm of

a U.S. convoy. You are about to take part in the Battle for Levte Gulf against the Japanese.

The games are initially available for the Commodore 64 at \$9.95 for cassette and £14.95 for the disc. Conversions for other ma chines are planned but release dates have yet to be finalised.

## Adventure KENTILLER and Rigel's Revenge.

two of Mastertronic's adventure games, have disruptive bugs, a source revealed to Popular Computing Weekly this week.

The source indicated that the Spectrum version of Kentiller has two fatal bugs which stops the player from completing the game. The first prevents Elva from killing the Darg Vool, and the second will not let the player retrieve a dagger from a chest.

The bug in Rigel's Revenue is also said to be fatal. Appearing in

the second half of the adventure, it too prevents players from continuing their adventure.

Rachel Davies, marketing manager for Mastertronic, admitted that a bug had been found on the Amstrad version of Riget's Revenge. She denied, however, that there was any problem with Kentiller. "We are not aware of the bugs," she said. Concerning Rigel's Revenge,

Rachel continued. "The master that was used to duplicate the games has been redone." She added that Mastertronic was offering to replace any faulty tapes held by the public. When questioned as m why no-

one had spotted the bug before the game was released, a spokesperson commented: "Technically this happens a lot. Sometimes adventure games take days to complete and we have not got the time III play them ourselves." The spokesperson stated that it

was the programmer who found the bug but conceded that it should have been spotted before the game was released.

Ron Harris, Mastertronic's software manager, was adamant that the new batch of games would be bug free. "The samples have been tested will the way down," he said. "there are no bugs."



## CHARTS

## **Top Twenty**

1	(4)	Out Run	
3	(1)	Combat School	
3	(2)	Grand Prix Simulator	
1	(9)	Match Day 2	
5	(5)	Solid Gold	
8	(8)	Live Ammo	

Game Set Match Gary Lineker's Superstar Soccer (8) (14)

(10) (NE) Rampage

(18) BMX Simulator

(16) Pro Ski Simulator (24) Back To The Future Soccer Boss

20

(22) Magnificent 7

All figures compiled by Gallup

US Gold

Sega-US Gold

Ocean Code Masters

US Gold

Domark

Gremlin

Ocean

## **Bros D at HMV New virus** the first major appearance they have made in public but both

computer sames can finally meet their heroes the Darling brothers Richard and David live in person at an exclusive autograph signing session on January 7th at HMV records 363 Oxford Street, London

from 5.30nm onwards. The brothers D will be there to launch and sign copies of the new Code Masters Plus range of stames

brothers are looking forward to it. David Darling said: "Both Richard and I are looking forward to the HMV store annearance as it's a great opportunity for us in meet some of the people who have made Code Masters such an immediate shocker

out with the write-protect tag

In that case, it is clear that any disc, not just Test Drive, could be offerted if it has been previous used or demonstrated previously through on fault of either the

manufacturer or the dealer. If an infected disc is inserted into a demonstration machine, say Workbeach or a customer's own

game, it may be that virus could then reside in the demonstration machine

In those circumstances it is easy to see how any game demonstrated on that muchine could become infected

The answer would appear to be to ensure that any game bought has not been demonstrated in a shop, although that presents problems of its own.

## ST clock saves space

been launched which doesn't take Union Street, Aberdeen, Scotland up any space in the cartridge port AB1 2DB. Tel: 0224 581858. Price of the ST. Produced by Star UK, It.

COMPETITION

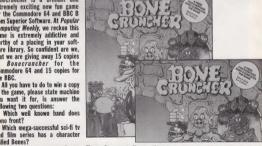
Ronecruncher is a brilliant and extremely exciting new fun game for the Commodore 64 and BBC B from Superior Software, At Popular Computing Weekly, we reckon this game is extremely addictive and worthy of a placing in your software library. So confident are we, that we are giving away 15 copies of Bonecruncher for the Commodore 54 and 15 copies for the RRC

of the game, please state machine you want it for, is answer the following two questions:

1 Which well known hand does Rope front?

2. Which mega-successful sci-fi ty and film series has a character called Bones?

Address your postcard to: Bones Make The Wold Go Round Competition, Popular Computing Weekly, Focus Magazines, 3rd



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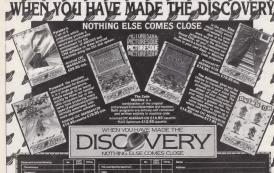
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## PROGRAMME

Over the last year the ZEN ROOM has produced some of Europe's top games, like TAU CETI DRACULA CYBORG, ACADEMY, DEATH OR GLORY, BALLBREAKER and THE ROCKY HORROR SHOW: Now Britain's most innovative software development team are looking for experienced freelance programmers to join them. If you have just written a game or are about to and would like the financial and programming back-up the ZEN ROOM can offer contact Michael Hodges on 01-985 2391 or write to the ZEN ROOM. Unit 7D, Kings Yard. Carpenters Road, London E15.

## THE ZEN



## **PROGRAMMERS**

Over the past 5 years many programming teams have been set up. Some have been very successful, but many others have failed. Nearly all have been

connected in some way with a software house that has had hits and failures. Exocet is a new software house and a new programming

team, which is not going to have any failures, only hits. It is because of this fact that Exocet are now looking all over the world for the very best programmers, on the following machines: Amiga, Atari ST, IBM, CBM 64, Amstrad and Spectrum. So if you are a serious programmer and want to make a successful career out of entertainment software, please contact Exocet on: 0772/20 29 97, or write to Exocet, 16 Lune Street, Preston, Lancs. PR1 2NL



Channel 4's Are looking for Amina Artists & Programmers for its second series beginning May 88 If interested a full-time London based commitment please send C.V. and Demo Disk to: Shelley O'Reil Video Üisuals 300 Fulham Bd Inndon

## The good ship Nexus

Shortly before Christmas, another small software house called in the receiver. Nikki Carvey tells the sad tale of Nexus.

The recent and somewhat unexpected downfall of Nexus has resulted in considerable speculation about the factors conributing to its demise. Whatever the causes, small businesses inside and outside the computer industry will have learned from their costly resistables.

Paul Voysey, who took over the directorship of Nexus in August, explained that the Nexus ship sank because of "historic indebtedness".

He expanded by saying that prior to Electronic Arts, Nexus had licensing deals with a number of countries. Par from being incrutive deals, Nexus signed with Electronic Arts owing considerable sums of noney.

sums of 100ney.

"In Australia, we had licensed eight products in three formats und taken \$15,000 in advance," Voyacy said. "Since sales were very disappointing we still had something in excess of \$10,000 outstanding en products in that contaming the products in the contamination of the products o

With the same situation occurring in several European countries the total sum owed amounted to thousands of pounds. Voyaey believes that the problems centred plan long-term. The situation was excaceribated by the neglect to make a bad debt provision. Subreduction of the problems of the property when companies failed financially. So far as olimning tone; it seems

No in as panning goes, to some Nexus was almost doomed from the beginning. While Clive Bailey and Bill Delaney had sufficient capital to get them going in May, 1986, that money should have been invested in products but it was not.

Voysey was critical about the beginning, saying: "Someone said to me that small companies should always be run on the basis that they are in a crisis. Early on that was not the case with Nexus. Not enough money was going on products – it was going on small things here and there."

Nexus became affiliated in Electronic Arts in July 1987 and it was soon after that Delaney left, fallowed by Ian Ellery, to start another business totally removed from the computer industry.

In August, Voysey took control of the directorship and it soon became apparent that Nexus was in dire straits. "I had some idea of the deals which were going on," he

deeply. We were not buying the company, so we took the assurance of people who had a place in the industry and a proven record." It soon transpired that the com-

pany Forrest had believed to be very strong was too weak to cope. Electronic Arts had secured large orders in Europe for Skull Diggery but the buyers wanted the inlay cover re-designed. "We had dis-

SKUII-DIGGERY

The etial of software products from Nexus

said, "but it was only when I took over and looked carefully at the assets and liabilities that I found what the situation was. Things I thought had been sorted out and paid off appeared as very large debts."

John Forrest, director of European distribution for Electronic Arts, admitted that he "went in blind" as far as Nexus was concerned. Prior to negotiating deals in the U.K., Electronic Arts claimed to have researched the murket thoroughly.

He defended Electronic Arts' naivity saying: "None of it was visible to us. There was no reason for us to have investigated Nexus cussed the new design with Nexm," said Forrest, "but they were not able to progress from the design stage to producing the covers for both legal and financial reasons."

Nexus had been over-spending dramatically. Voysey described the overheads as "crippling". The company was spending as if it was producing considerable numbers of games but in the time it was with Electronic Arts only two titles reached fruition.

Electronic Arts remained ignorant of the situation at Nexus until it was told by Voysey. It did not take long for it to throw in the towel but Forrest denied that Nex-

us was left in the lurch. "We would have baled it out but the figures we saw showed that it had got deeper and deeper into an uncoatrollable situation."

Voyacy supported Forrest's assertion saying that the Nexus arfiliation to Detectorick Arts probably prolonged the company's life. He praised its attempts to put together a rescue package. "At one stage we were trying to re-negotiate the whole basis of the contract to produce the software we had,"

From then the situation went into rapid decline. Voysey described the predicament. "It was horrific, We just could not get the figure down to anything accessible."

When it became obvious the situation was hopeless, Voysey informed the programmers soon before the liquidators moved in. The secretary, however, was oblivious to the fact until the liquidators arrived and began taking products.

For the moment, the future of the games Nexus had in the pipeline hang in the balance. Veysey admitted, though, that a number of campanies had showed literest in bidding for the products, including Electronic Arts. The decision on who will get the games rests with the liquidators and no doubt there will be considerable hagging at the credition's meeting next week. Despite its embarrassment at

Despite its embarrassment at the failure of Nexus, Electronic Arts has not been deterred from accumulating affiliated labels, as the recent Martech signing proved. Forrest is adamsnt that the company's concept is correct and that Nexus was merely not as strong as Electronic Arts had believed it to

Voysey, meanwhile, has time to reflect the past and what went wrong. He has learned a major lesson from the demise of Nexus and admits if he had the time over again, things would be done very differently. "I would run the operation much silimmer, put more money into product and have more products going through."

#### Christmas cheer

've just bought the Christmus double issue, and had to write in to say - well done! At last you've got Popular printed on decent nuner I noticed your Mestertronic competition as well - let's have more competitions in 1988.

A couple of drumbles about your Christmas Buyer's Guide. David Lester says that the Atari 520STM needs an adaptor to connect to a TV set, Wrong David - the M stands for modulator, which con-

Also the Amies does not conbuilt-in IBM emulator - although the A2000 has sockets for an IBM board, available as a \$400 extra.

Cathu Robins. Yes there will be more comnetitions in 1988, and rest assured that David Lester's errors were snotted, and he has been locked in the cellar at Focus Towers over the entire Christman holiday.

#### Good, bad, indifferent, or . . . ?

The back page article by Raymend Jones (Comment, Novemher 26) on being ignored by software firms produced a wry smile in

Is it not ironic that PCW chooses to "cast stones" at software firms when its own attitude towards serious business offers (with soggestions for a new puzzle) is much the same?

While PCW's questionably polite silence doubtless saves the editorial staff some time and trouble in the short run, in the long run it

does nothing for PCW's regulation. Whether you regard this policy of dismissive silence as "good, bad or indifferent" I do not know, but I do know how it looks from here!

Philip Lewis Model Micropastimes, Rournemonth Dursel The comment page is a platform

for the personal opinions of individuals regarding any aspect of computing.

The opinions expressed there are not necessarily those of the editor or staff, and publication otherwise with those views. So Popular Computing Weeklu was in no way casting stones at anyhody, nor agreeing or disagreeing with Mr Jones' views. As far as our "silence" on nuzzle ideas is concerned we would like to thank all those readers who sent in ideas. The demand for the original suzzle's

return has been well documented on our letters page, Obviously the return of the original ouzzle means, unfortunately, that we were unable to use any of the other ideas submitted. We cannot and do not reply to

all fetters, but would like to analogise to anybody who submitted an idea and was waiting for a personal reply.

### Adventure society

n reply in "Comment" by Mike Lewis in PCW December 10. Mike said to few years ago adventury vames were a growth early advantage of the growth in

Another of Mike's statements was "adventure games no longer any moderate arcade game". But they do. They sell over a longer period. It's a different market. The Pawn was launched in March 1986 and still sells up to 5000 copies per many other titles. No "moderate" arcade game can even come close , in terms of overall sales

Standards of oregramming? The Guild of Thieves secently won the British Mirm Awards "Game of The Year Award" for its depth of plot, graphic content and technical excellence, beating worldwide competition, Magnetic Scrolls, Level 9 and Infocom all produce traditional adventures featuring gradual improvements over previous products. Level 9's latest release Goome Ranger" has ten times more text than their early products and the technical content is enormously more sophisticated.

and intelligent response give each game an individual personality, a life a vision an imagination Their anneal contrasts greatly with the nervy speed and eveitement of arcade games. Adventures take more time to write than most arcade games. The games are no less enjoyable to play, they simply appeal to a different public.

Rather than needing to adapt. as Mike suggests, adventures need to continue their progression. The subject matter will become more diverse, the features will grow, the occasional lean ferward will be made It's all in band Mike prople

are already working band towards these ends

Where to get the information? Send a stamped addressed envelope to "P", Official Secrets, PO Box 847, Harlow, Essex CM21 9PH. We are about to build the World's best Adventure Society, to keep pace with the changes! Tonu Rainbird.

Inter-Mediates Ltd. Magnetic Scrolls Ltd

#### Interviews

Having read Popular Computing Weekly for several years, ! tant feature is missing from the magazine - interviews. Where which I am talking are with programmers, software houses even famous people who use computers or play games un them

I like the idea of a weekly News Analysis but how about having a weekly interview as well? Apart from this minor problem, I must say that the new format and the expanded games section have made Popular Computing Weekly a very enjoyable read.

Janet Williams,

## Soft soaning

I hall is happening with the fullprice software houses these days? Barely a week passes without a new compilation appearing featuring several games I bought only a month or so earlier. It is now approaching iii the stage where I will not be buying any more full-

The mixture of plot, text, humour - price software, I will wait for the compilation and buy budget. Sarah Powell. Aberdeen Scotland

#### Infected

lot 4 week passes when your magazine does not have a story concerning virus on computers. Why is Popular Computing Weekby an obsessed with the virus? David Jones

Northolt Middleser

#### Correction

Steve Gold's article on multimunications, December 10-16 compared the cost of a number of multi-over sames and said that compared to The Gods and Mud. Phantasia represents excellent value at \$1 an hour.

Those behind The Gods have asked us to point out that The Gods costs only 50 pence an hour. We applogise for the error and for any embarrasament.



We are sorry but Popular Computing Weekly cannot guarantee to reply to all letters requesting a personal answer. It helps us enormously if readers are prepared to have general queries answered on these pages, so, if possible, please do

## **Mountains of sound**

Tony Sachs takes a look at the Synth Works package for the Yamaha DX7 synthesisers.

te Yamaha DX7 synthesiser has had # remarkably long innings in a market where lifespans rarely exceed a year. In the four years since the DX7 was unleashed, more than 100,000 have been sold and its distinctive frequency modulachart record.

The quality of the FM sounds is such that the DX7 - and its offsprings, the TX7, TF1 and TX 216/816 synthesiser modules have succeeded despite being fiendishly difficult to program. More than 100 parameters, known collectively as a patch. have to be specified to define a sound. Many DX7 owners find the process so daunting that they never venture beyond the original sounds supplied with the synthesizer.

Synth Works is several packages in one. At its most basic level it is a patch editor, displaying all the DX/TX parameters on a single screen where the user can tweak them to achieve the desired sound. Almost output level are combined cleverly in a single representation. Two particularly useful aids are the four

buffer areas, in which variations on a patch can be stored without losing the original, and a mini-sequencer which remembers a five-second snatch of music. It can lim triggered from the ST QWERTY keyboard, allowing the user to hear a newly-edited patch in action without touching the synthesiser keyboard.

Although the editing screen makes the patch-designing process as painless as possible. Synth Works has some more tricks up its sleeve to assist in creating new sounds. If you want a variation on an existing patch, the program can compute versions of the patch by varying its parameters slightly. It can also create completely new sounds from scratch using a set of randomising algorithms developed by Steinberg. Although not all the sounds produced in this way are worth keeping, serendipity ensures that every now and

Patch creation is a similar function which limits the number of source sounds to six but introduces artificial intelligence to analyse them and to form new patches from them. It is certainly a powerful tool although the Steinberg assertion that it will "swamp the music world with a plethors of new sounds" is probably an over-statement

The next element of the Synth Works package is a patch library which can store more than 2,000 patches in 21 categories To start you, the package has more than 700 patches, some of them familiar to DX/TX owners, many of them new. PM strong points are well represented with more than 100 examples each of piano and string sounds and almost 100 percussion patches. Patches can be moved around and sorted with ease and the program can even root out identical patches masquerading under different names.

The final weapon in the Synth Works armoury is a routine which performs a fast Fourier transform on any patch to display it as a three-dimensional graph. The result looks like a miniature mountain range and depicts how the various harmonic constitutents of the sound vary with time. Discordant sounds produce the most dramatic effects, generating a passable imitation of the Himalayas on the ST screen.

Although the FFT display in intriguing and educational, it is of little practical beloin designing or editing patches. I suspect that it has been included to keep pace with Steinberg's main German rival, C-Lab, which has a similar function in litt X-Alyser package. It will also provide an impressive showroom demonstration especially as, by pressing the F10 button, the display cycles through a series of views of the harmonic "mountain range" from different angles.

At \$150, the Synth Works DX/TX offers remarkably good value for the library alone. ROM-based libraries of natches can cost more for fewer sounds. Add to this the ense of creating usable new sounds with the package and it is obvious that Steinberg has a winner.

Evenlode Soundworks. The Studio. Church Street, Stonesfield, Oxford OX7 2PS. Tel: 099 389 228.



every adjustment can be made with the mouse, sometimes using clever two-button short-cuts. For many parameters the user can choose between altering a numeric value or varying the shape of a graph using the mouse to drag it to the correct shape.

A great deal of thought obviously has gone into designing the patch editor. Some of the graphs have non-linear scales | represent the uneven effects of varying certain parameters. Another example is that two interacting variables, velocity and

then a gem emerges. The two most powerful sound creation

options offered by Synth Works are called mix and patch creation. The former produces an amalgam of between two and 32 patches selected by the user. You can mix a piano sound with a string sound to produce a new sound with elements of both. The program will produce a string of alternative combinations of the original sounds, never repeating itself, Steinberg claims.

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## All the luck in the world

agnetic Serolls again, Wacky again, Loads of awards again? Some people have all the luck? I

guess they do. diprier is all about lack, and

the lack of it. The magician Turani erested a bracelet, complete with accompanying charms. Il provide copious quantities of good luck for the inhab-

Here's where it all starts to get ust a hit silly. The power of the bracelet, in the grasp of a worthy enough mortal, is harmful to witches, particularly the Green Witches of Agultania.

So, the bracelet was placed in the hands of the witches to safeguard it, a move about as sensible as detting a wolf to watch over your sheep.

The power of the bracelet has limited the mischief that the witches could get up to but now that has all changed.

A witch by the name of Jannedor has used her influence to overthrow the power of the bracelet, and cast an enchant-

The net result, destruction of the bracelet, but only if all the charms are removed from it first. Inducements have been offered to the public, to do this for the witches and now all the luck has run out in Aquitania for the ordinary working folk.

The powers of the bracelet are fast diminishing so a brave. forthright, upstanding, but most of all gullible, member of the nublic has been conscripted to find the charms, reassemble the bracelet, and confront the ultober

You in other words. That's the task, the first problem is getting off a bus at the

right ston. it is important to get off at the right stop otherwise von'll find yourself balfway down Neverending Lane. And it's quite long!

Getting off the bus accomplished, a first meeting with an immortal and a mysterious luggernaut is on the cards, but only if you stoop to nick up some

Inside your house the telephone rings and you hear the last words of one of your friends. Hend for his house, hy going out Ill your back door and the silven



it's ghastly, and completely different in style than everything else in the game. The nackaging is nearly as

The parser in Jinuter is reput-

edly more advanced than in The Paura, and Guild of Thieres, but it doesn't seem so.

What you may not be able to swallow is the sophisticated humour and the satirical element. If expressions like 'Narmean' and 'Wossname' are your idea of stylish wit, then you're going to love Jinrter

A more frivolous game than Guild of Thieres, Jinxter represents a different style again. while still retaining all the acclaimed Scrolls hallmarks.

As far as adventure games go. there seems to be few companies that can match the Rainbird/ Magnetic Serolls alliance.

Even the mighty Infocom are being eclipsed with their dichard text only productions, so it only remains to be seen exactly how much acclaim is poured onto

Good as this adventure is. though, I seriously doubt that it will be the best one that Anita Sinclair and Co. come up with in



ture begins in earnest The graphics are as good as

usual, except for the opening scene. This tooks like people

> hard of thinking make up the goodles. Missing is a novella, but considering what they tend to be like this is no loss. The newspaper will raise a few chuckles, but isn't as good as



What Burglar? in Gulld of Thieres Problems in Jinster include getting past a buil, barbed wire fence, seeing in the dark, opening Xam's mailbox (your recently departed friend's), dealing with a megalomaniac gardener, a postmistress who thinks she is Calamity Jane, and most bitingly of all, Poor Bloody Lebling (ho. bloody,

containing a memo, instruction

card, a competition beermat, and

a copy of The Independent

Guardian, quality news for the

Reviewer Duncan Evans Rating 16 Micro Amiga/ST Price \$24.95 Supplier Rainbird

Your complete quide to all the software released this week

#### Amstrad CPC

Program Compendium Price \$0.99 Supplier Gremlin Graphics. Alpha House, 10 Carver Street, Sheffield S1 4FS.

Shove-a-Sledge, Tiddly Winks, Ludo and Snakes and Ladders make up this compendium, unashamedly aimed at the younger gamer.

Program Anarchy Price \$2.99 Supplier Rack-It/Hewson, 56b Milton Park, Milton, Abingdon, Oxon. OX14 4RX.

Sixteen maxe-like carpets of biastable blocks, unstoposble allens, tricky trackers and manic manoeuvring combine to form the thinking man's shoot-'em up.

According to the press release anyway. Actually it's a reasonable

enough game,



one for the committed only. 11-15 Good, but not that good. Should be worth the readies if you like that sort of thing.

16-20 So good III makes good look bad. Run down to the shop and buy immediately.

#### Rainbow Dragon

Da few games recently. The latest member of the fire breath ing clan to appear in pixel format

is Asturias, a magical dragon. Trapped in a temple deep underground (and what was he doing there anyway I wonder?). Asturias must find and destroy ten magical chests as well as

overcoming the various hazards slong the way, if he is to see daylight once more. The dragon has more than napalm up his nose to help him

on his way though. He can cast four spells: magic detection. reading magic, dispel illusion and restore.

Magic detection is useful for discovering whether a chest is enchanted, or just a pile of wood, while reading magic can be used m decipher magical writing on

the pillars.

Clues to problems usually appear in these places. Restore is the cornerstone

spell of the game, and is used to clear obstacles or repair plilats. One of the main dangers is from crombling pillars

For a budget game the graphles are rather special, bright and colourful and very engaging. The

. dragon is a Jolly green thing and even the sound effects are темsопаble.

For only a couple of quid Rainbow Dragon Is good value for money and if you fancy simple arcade adventure with a measure of strategy then you can hardly go wrong.

Reviewer Duncan Evans Rating 13 Price \$1.99 Supplier Firebird



### Atari ST

Program International Karate Price \$14.96 Supplier Activision. 23 Pond Street, London NW3. Re-release of graphically impressive karate game at a lower price. The animation is inferior in that in

Karate Kid 2, as are the sonics. Why do all the fighters look like monkeys though?

Program Jinxter Price 524.95 Supplier Rainbird, 74 New Oxford Street, London WCIA IPS. Game of the Week so see relevant

## Madhalls

adballs is the latest game for the Amstrad CPC from Ocean. The same is loosely based on the toys of the same name.

The aim is to become the top Madball on the planet ORB. You play the part of a madball called Dust Brain who is intent on creating as much maybem and havoc as possible to become supreme ruler of Orb. To become the head Madball

you must convince the other Madballs why you should be the leader. This is done easily by

beating the doubters into submission so that their skills and talents can be incorporated into Dust Brain so that he can rule forever Madballs is one of the most

vicious and violent computer games to grace the screen. The characters go by the names of Freaky Fuliback. Skull Pace. Fist Pace and your character. Dust Brain, Dust Brain drinks blood for food while Fist

Face eats bones and Screamin' Meemie takes coke. The game is billed as being "freaky fun for everyone" but I

feel that after a few plays you will not find it very exciting. Initial impressions are good,

The game is played a la Bounder - you control your ball which bounces round the screen but you must be careful and watch for the other Madballs who intend to idil you.

The game has been programmed by Denton Designs and expected much more than a simple scrolling game. The graphics can only be described as adequate and leave much to be desired compared to previous Denton offerings. As a budget game, it would be good value but at full price it is really a toke.

On the positive side, the packaging is appealing to the impulse bayer with its cartoon-style cover and the promise of free Madball stickers. My advice is wait until this game is on budget or until II appears on one of the excellent Ocean compilations.

Reviewer Leslie Bunder Rating 9 Miero Amstrad CPC Price \$8.95 Supplier Ocean



#### Out Run

Witness the phenomena, exper lience the seasation, salivate over the licence, and prepare for disappointment over the conversion.

Out Ran has arrived, the mega smash hit driving success in the accedes appears in a Cel Incarnation. The disappointment mentioned is only because the original coin-op is such a brilliant game, and the C64 version is

merely good.

If you are not aware of what
it's all about, let me refresh your
memory. Out Run has you and a

"gorgeous girl" in a high performance Perrari Testarossa sports car piling down the highways and byways. 17/10g to complete various sections in the time ullowed. Scenery flashes by on either side of an unfulshing road, litered at times with drivers of more sedate and less Stylish motors.

The C64 version has five courses, and fifteen sets of scenery, starting in Coconot Beach. Each course in a self-contained game and most line loaded

separately.

Faxt, smooth, detailed graphics are the hallmark of the original, and alax the old 04 just isn't

up to reproducing this kind of action. The graphies of the seenery, especially the houses, are very crade, and the sensation of speed is given by flickering lines that stretch across the entire screen. The undulation is well done though, you really feel that you're going up a hill, and the game certainly is fast enough.

One of the best features of Out Run is that having a brush with other motorists isn't fatal, as in too many driving games. In facit is almost as if the car had rubber bumpers, and that is all right by me.

right by me.
Out Run, the C64 computer

version. Is a pretty decent game, it just does not look II when compared all the original. However, if you want to feel the wind in your hair and the thrill of driving through regions like Devis Canyon, then set up a hair-drier four feet away, and boot up a cony of Dul Run.

Reviewer Duncan Evans Rating 13 Micro (IIII Price \$9.95 Supplier US Gold

## Software guide continued

page elsewhere in the magazine. The graphics are just the same, but it wasn't that good a week.

Program Moebius Price \$24.95 Supplier Microprose, 2 Market Place, Tetbury, Gloucestershire GLS 8DA.

Martial arts role playing strategy that falls to achieve the high standard it sets itself. The music is quite appailing.

and the animation is poor.

Apart from that it's pretty boring to play and costs far too much.

### BBC B/Electron

Program Creepy Cares Price \$1.38 Supplier Atlantis, 28 Station Read, London SE28 5AG.

Decent graphics lift this bodget platform and ladders above the pletfloru of similar products. The plot as commendably silly and it's all good fun, so why not?



## Marble Madness

Anyone who has ever seen the Andigs version of Marble Madness will agree that it is a superb piece of software. From the graphites to the music and sound effects, a five star product.

Pity then, that this ST imple-

mentation is so very disappointing. The game, for the unlothstanded, features a marble which has to negotiate 3-D Escherlike sarfaces, surreal plains, gulles, pathways and ramps. The land-acapes hecome increasingly complex, convoluted and eye bag-sling the further you program. The opposition to competing a

level is provided by Sänkys, enemy black balls, repelling blocks and magnets, flapping bridges and many other bizarre foes. One feature worth noting is

that limitless marbles are supplied on the levels which have to be completed against a decrementing time. If you lose a marble, the action simply restarts at the beginning of the level. While the scenery scrolls down slowly, but smoothly, the sprites are nothing special. Nice to see the entire screen being used on an ST game though. Two factors let this conversion

down. The first is the sprite detection, which could best be described as random and rather spoils things. The second is the sound.

The music in atrocious, so

watery and tuneless that you immediately want to turn it off. The sound effects are not particularly good either. Have these people never heard of sampling? Very disappointing for ST owners that such a poor job has been done on this conversion. Only recommended if you are completely addicted to the arcade game.

Reviewer Duncan Evans Rating 9 Micro Atari ST Price \$19.95 Supplier Electronic Arts



### Commodore 64/128

Program Definitor Price \$9.88 (tape), \$11,89 (disc) Supplier Gremlin Graphites, Alpha Hause, 10 Carver Street, Sheffield \$1.4FS. Interesting one this, Guide your laser beam around each screen using reflectors, refructors, mirrors, absorbers, polarisers and fibre optics.

If you fancy a change from mindless blasting and intense strategy then investigate further.

continued on page 30 >

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Flight Simulator.
Final Trip.
Football GFL

#### Software guide continued

← continued from page 12

Program World Tour Golf Price \$12.95 Supplier Electronic Arts, Langley Business Centre, 11/48 Stution Road, Langley. Berks SL3 8VN.

SYN.

The only opposition to the omnipotent Leaderboard. Less areade feel and more strategy, but it isn't as much fun to play and the

graphics are inferior.

A split screen display shows an overview of the hole, as well as the golfer. Hanter to play, so represents something of a challenge.

Program Gary Lineker's Superstar Novcer Price \$0.05 Supplier Gremlin Graphics, Alpha House, 10 Curver Street, Sheffield \$1.4FS. Now available neross all 8-bit for-



mats, this clever rewarking of football management themes is recommended. I'm just waiting for the ST version.

Program Psycho Saldier Price 59.35 Supplier Imagine, 5 Central Street, Manchester M2 5NS. The burbarian stri with the big

The burbarian girl with the big shoulder blades hits the 64. Best version of the game recently reviewed.

Program Ore Allack Price \$1.98

Supplier Top Ten, 12 Chiltern Enterprise Centre, Station Road, Theate, Berks RG7 4AA. Well, we had Operation SAS last week from Top Ten, so it's no

surprise to see the geriatric Orc Attack. Quite ridiculous that this is even being sold at all.

Program Heidrop Price \$1.98 Supplier Top Ten, 12 Chiltern

#### Jet Bike

Odemasters moving upmarket? Surely not. Although the answer may appear to be yes, it really should be, not really, or even only slightly. Confused?

Let me explain if l vish you would. Ed). The Plus range of games offers the usual Codemasters budget game but with bits of freebess to warrant the extra casb. The extras in the case of Jet Bike Simulator, written by the prollife Oliver brothers, include a budge, poster, and most importantly, an extra cassette.

With two tapes to play with Codemasters has provided m standard version of the game, an expert version, and two additional sets of courses, each with eight screens.

The first set of courses has the player zipping around lake scenes, trying me beat three other competitors, of which one can mid a friend. An interesting feature to note is that you can only bump into another human player, not the computer bikes. This is a relief because otherwise anyone ending up at the back would have

no chance to overtake the pack.

Although the game is entitled
Jet Bike Simulator ill could easily be Small Biob Simulator. The
reason for this is that the courses
are unite detailed. Bill one non-



scrolling screen, and if the bikes were any bigger it would be a real pain trying to get round.

Not that this affects the playability one bit. Far from it really, with clockwise and anticlockwise directions and thrust it's possible to scream around very tight corners and perform some pretty near manneavers.

The spray spurting from the back of the boat is a nice touch, as are the brief snatches of synthesized speech. From a technical point to view.

synthesized speech.

From a technical point & view.
no one could accuse det Bike of
being state of the art, but then at
this sort of price, and if the
game's fun to play then it doesn't
really matter.

For those who get cocky

enough to reckon that they've cracked the standard version of the game, and played out the extra scenes, there's the advanced version to contend with. And hoy do they mean advanced. Unless you're red hot, forget it.

Simple but entertaining gameplay, decent sound effects, and long term playability will doubtless ensure that Jel Bike Simulator spends as long near the top of the chart as the all conquering Grand Prix Simulator.

Reviewer Duncan Evans Rating 14 Micro Amstrad CPC Pelca \$1.00

Price \$4.90 Supplier Codemasters

## Andy Capp

Cartoon hero Andy Capp has finally made it onto the computer screen, courtesy of Mirror soft. All your favourite characters from the cartoon strip are here. Flo. Chalkie, The Rentman and many others.

The plot consists of Andy dis-

covering that his dole cheque has gone missing, while Flo demands some money. As Andy, you must find out who stole your cheque so that you can give Flo her wedge. But if you cannot find the cheque, you have got to obtain money by other means.

You can use the money from your last giro to place a bet on a horse. Alternatively, try and persuade some friends to lend you a few bob so that you can keep Flo

Andy Capp is ideally suited to the Spectrum as the main playing area, the top half of the screen is in black and white similar to the cartoon strip.

The bottom half of the screen shows the icons you can choose. The Wallet icon, for example, is used for moving money in and out of your pocket. If you want to be radical you can choose Fight, which can get you out of some tricky situations.

There are many jokes on

Northerners in the game, including a rendition of the theme used on Hovis advertisements. Mirrorsoft has produced an enjoyable romp around town in el' Andy. The graphites, while not detailed, are still impressive enough to make the game enjoyable to

play. I am now awalting the release of Andy Capp 2 - how about Andy Capp meets m with Wally Week (remember him). Well done Mirrorsoft.

Reviewer Leslic Bunder Rating 15 Micro Spectrum Price \$9.95 Supplier Microsoft



#### Scruples

The question posed by the press Scruples from Virgin Games do you return the program to the magazine's software library, or do you steal it? Silly apestion really.

Thankfully, the questions nosed by the same itself are far more penetrating and dilemma inspiring. It all adds to the fun and games.

Between three and ten players can participate in Scruples, Illthough any number of those can be computer players. The initial ontlony include defining a face. ter, as well as 12 personulity traits, rated between +5 and -S.

The game commences with sch player receiving a number dilemma cards, and un answer card, which can be yes, no or depends. The idea is to disnesse with all the dilemma cards, which is done by selecting a dilemma and nosing it to another player. The trick is to give the dilemma. to a person whose answer will match your answer card.

Equally, when being given a dilemma, teply with yes, no or depends, and then nick the reason, from a choice of four, that you responded that way. This is where it all gets comulicated. If the answers match, the asking player discurds the dilemma and answer cards, and receives a new



answer card only. If the answers do not match then they receive a new dilemma card as well

The asking player now has a chance to challenge the answer regardless of whether it matches who they believe. Bluff and counter bluff casne

At the end of the same the players original histogram and the modified one are displayed and everyone can accuse each other of lying, cheating and so

Scruples in a rather good implementation of the board came A pleasant tune warbles away to hegin with, and the graphles for the players' faces are reasonably distinctive. Playing against the computer

provides some measure of fun. but the serious laughs come when you play with a few friends. especially when the questions apply to their current circumstances.

It all depends on whether you like this style of game, but full marks to Virgin for a first class implementation anyway, in response to the question about where our review copy is going to end up - my doggybag, I think

chaps.

Reviewer Duncan Evans Rating 15

Supulier Virgin Games

#### Software quide continued

Enterprise Centre, Starion Road, Theale, Berks RG7 4AA

Simple samenlay, entirely unoriginal and plain graphics suggest that you should leave this one on

Program How To He A Coumbre Bastard Price \$9.95 Supplier Virgin Games, 2/4 Vernon Yard, Por-You'll either he in stitches, offended or completely indifferent.

Program Hunt For Red October Supplier Argus Press Software.



## Racket Macter

Basket Master puts you in a head to head confrontation on a basketball court, against the computer or another player. Rather than having several different characters to central, you have only one character with which to try to shoot a few haskets

Imagine has produced quite a nice little game for those who enjoy playing sport games. The graphics are well defined, the sound effects are good and the animation is smooth

lods of five minutes. Each time you score a basket, there is a slow motion close up of how that busket was scored

also commit fouls such as touching your opponent as he is about III shoot. So you must be careful as to how you steal the hall away. Each same lasts for two per-Playing the game is simple and easy to understand. After a few

plays, I found the game very enjoyable and exciting, Imagine and the software authors Dinamic have put a great deal of effort into the game and III shows, If you like basketball, or even if you do not, Basket Master is highly recommended. Hopefully Imagine will use the

As in real basketball, you can

idea of head-to-head confrontations ill some of their future sport games.

Reviewer Leslie Bunder Rating 15 Micro Spectrum Price \$7.85 Supplier Imagine

Victory House, Leicester Place,

Rather expensive conversion of the ST/Amiga program which was graphically impressive but a bit

At this price it should have a copy of the Tora Clancy book that it's based on bundled with It.

### IBM PC/Clones

Program Space Quest II Price 524.96 Supplier Activision, 23 Pond Street, London NW3 Space Quesi II, Vohaui's Revenue. throws libger Wilco back into conflict with Sludge Vohaul, the evil

The chunky style of graphics and with text input and un screen 3-D arcade adventure action you really can't go wrong.

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#### Software guide continued

◆ continued from page 21

### Snectrum Program Tonk Busters Price

\$1.99 Supplier Firebird, Wellington House, Upper St Martin's Lane, Very much a Battlezone style

affair with the added bonus of wire guided missiles. Seek out the lager of ... no

that's something else. Seek out the aliens and destroy the suckers. Laudible enough quest and the wire frame 3-D

graphles are good enough. Budget software tends to be rather hit and miss, with the emphasis on the latter. Nice to report a game that is firmly in the former category.

Program Pro Golf 8 Price \$1.90 Supplier Atlantis, 28 Station Road, London SE25 5AG

A golf simulation sequel for 1-4 players, featuring Royal St George's and Lytham St Annes Not particularly impressive and

as far as I'm concerned, if it isn't Leaderboard, it isn't golf.

Program Rock & Wrestle Price \$1.99 Supplier Firebird, Wellington House. Upper St Martin's Lane. London

Wasn't this the Melhoorne House wrestling game from a couple of years ago that everyone was particularly unimpressed with? Yes. so it was.

Program Xen Price \$1.99 Supplier Top Ten. 12 Chiltern Enterprise Centre, Station Road, Theate, Berks RG7 4AA.

Pinally, a re-release from more recent times from Top Ten. Xen is a vertically scrolling

shoot-'em up with lots of colour (aka Lightforce), detent gameplay and it's pretty cheap to boot. A good buy.

Program Chaos Price \$1.89 Supplier Pirebird, Wellington House, Upper St Martin's Lane, London, I mentioned this a couple of weeks back in Hotlings

Oh deur, it doesn't look very good at all. Still, any game which allows for eight players squeezing around a keyboard deserves a look.

Program Sports Hero Price \$1.89 Supplier Firebird, Wellington

#### California Games

I is the first week of cold January and US Gold has finally got round to releasing the Spectrum version of California Games

California Games is a multiload event game with six different events. Half Pipe Skateboarding, Foot Bag, Surfing, Roller Skating, BMX Bike Racing and Flying Disk. In the foot bag event, you must keep the bag in the air for one minute and 15 seconds only using your feet, knees and head, while trying to perform a few stunts for extra

Surfing has you trying to stay near the curl of the wave and manoeuvring the board at high speeds. What all the events have in common is a need to show your skills to the full - the more skills you have, the more points you

will wain While the game sounds exciting and the inlay card makes interesting reading, the game iii let down by the way in which the graphics are defined.

Controlling the characters in



the various events is also a little confusing.

The actual packaging, presentution and idea of the game are quite good. It is a real shame that these points were let down by the standard of programming.

One fun aspect of the game is the chance to choose your own spensor from a selection of names including Ocean Pacific. Frisbee and Bluebird. Also, by purchasing the game, you have a chance to win some prizes from US Gold Including surf boards and tee-shirts.

But having the chance to win a prize or choose your own sponsor dues not redeem the game. US Gold could have produced some thing of a higher standard, California Games is a sad release from the company.

Micro Spectrum Supplier L'S Gold



## **Galactic Games**

On the face of it, Galactic Games could almost be called Flogging a Dead Horse in Space. How many more sports games will the great British public tolerate? But Galactic Games has a secret weapon; some of the events are funny as well as being enjoyable. What you get are 100m Slither, Space Hockey, Psychic Judo. Head Throwing and the Metamorph Marathon.

The first event is an exciting race between two worms. It is good fun and the animation of the worms, especially when they try to super slither, is well done. Space Hockey is a novel re-

mals at either end of the pitch are black holes and if a player approaches too close, down he does As the players are a sphere,

judicious use of the brake is necessary to retain some measure of control over the proceedings. Space Hockey is best played against a friend; beating the computer is not so much fun. The worst game of the five is

undoubtedly Psychic Judo, an event in which the players lob balls of psychic energy at each other. Guide the ball of plasma and erect a shield to block retaliatory action

My favourite event is head-

throwing. Not the sick variety in which the player throws some poor unfortunate's noggin. In this game you leg it down the track as fast as possible, stop to get the correct angle and then off Il goes - your head, that is. While it is airborne, extra lift is provided by finpping the ears.

To avoid bouncing on touchdown it is necessary to press the fire button to start the heads rotating. Get it correct and your head dives nose first into the turf. Enormously funny, this is by far the best event in the collection and justifies the purchase.

The last event, the Metamorph Marathon, is a timed obstacle course. To get round successfully a number of shape changes are the order. Become a runner, burrower, Jumper or flyer. Although the graphics and

sound are nothing to shout about most of the events are entertaining enough and who could resist. the apportunity to throw his own

Reviewer Duncan Evans Rating 13 Price \$9.99 (tape), \$14.99 (disc) Supplier Activision



#### Wrestling

Wrestling is a much bigger game - I hestate to use the word sport - in the States time it is in the U.K. It is a surprise, then, to witness Microprose Importing Micro League Wrestling, an official World Wrestling Federation product.

What really is impressive about the game is the standard of the graphics. They are all digitised shots of Hulk Hogan and his two challengers. Randy 'Macho Man' Savage and Paul 'Mr Wonderful' Orndorff, in various poses as they flounce round the ring. Rather than being an arcadestyle game, like the U.S. Gold Championship Wrestling, ML

style game, like the U.S. Gold Championship Wrestling, MI. Wrestling is apparently more strategic. Mere suffering the preliminaries in which the comhatantis are 'interviewed' by the TV channel showing the event, the clocks starts tleking and a list of your possible options appears to the left of the main disolar.

A strength counter measures
your ability to deliver blows as
frightening as The Clothes Line.

the bright spots in a generally

Clearing a screen quickly -

and the first four or five can be

cleared very quickly and very

easily - allows for high point

targers on the next level, Instead

of squashing fruit for 2,000

points maximum, you can hit

jewels and other goodles for

If you take too long on a

screen Baron von Blubba ap-

pears. He is indestructible, so

5,000-10,000 points

mediocre game.

while a damage counter clocks how much sense you are having knocked out of you. If you do not get off to a good start the match rapidly becomes a lost cause and the one fall needed in the 20minute match to win soon occurs. The action is animated in a erude kind of way but as this is a crude type of sport it is rather appropriate, Between two and four frames of digitised action are played rapidly to give an anconvincing illusion of movemeat. In true TV style the camera switches to the crowd

advertisements.

Micro League Wrestling is interesting enough for about two games. After that the glamour of the digitised pictures tends to fade and the inherent boredom ties to the swrface. If you are a wrestling fan the appeal will last longer but as far as I'm concerned I would rather watch margarine melt.

out otherwise you have had it.

Rubble Bobble is mildly enter

talning it a monotonous kind of

way, It & fine for the vonnger

games player but otherwise it.

lacks the kind of polish which

would convince you it was really

running on an Atari ST.

Rating III

Miero Atari ST

Supplier Firebird

Reviewer Duncan Evans

from time to time. The only thing

missing is a break for the

Reviewer Doncan Evans Rating 10 Micro Atari ST Price 519.95 Supplier Microprose

## Software guide continued

London.

Four events feature in another Melbourne House budget re-re-lease affair. 100 Metre Sprint, Long Jump, 110 Metre Hurdles and the Pole Vault are all you get. It muy only be \$1.00 but this is hardly good value, and the graph-ss are nothing to tell David Vine about either.

Program The Colditz Story Price \$1.99 Supplier Atlantis, 28 Station



Road, London SE25 5AG.

Escape from Colditz Castle, while avoiding the guards who will have you shot at dawn if they eateh you. An areade/strategy adventure that is reminiscent of Ocean's The Great Escape. Only it isn't that

that it reminiscent of Ocean's The Great Escape. Only it isn't that good.

Program Deflektor Price 59:36

Supplier Gremlin Graphics, Alpha House, III Carver Street, Sheffield S1 4FS. See Commodure III listing for the

See Commodure III listing for biz.

Program Compensium Price 50.00 Supplier Gremlin Graphics, Alpha House, 10 Carver Street, Sheffield S1 4FS.

Four simple games that are no worse than the other versions, considering the Spectrum's graphics.

Program Madbalis Price 27.95 Supplier Ocean, 5 Central Street, Manchester M2. Check out the review of the Amstrad version for relevant

burst and nour downhill is one of when he appears get your finger

## Bubble Bobble

Would you describe the title Bubble Bobble as the greatest areade game of the year? I would not.

would not.

Babble Bobble casts you as a
small preforminantly green monster which spits bubbles. The
bobject is to leap around the
platform-strewn screen, spiring
the bubbles at leaping enemies.
There are 100 screens to complete and eight credits with
which to plays.

To clear a screen you need to hit all the rampaging bogers or whatever they are. Hitting one results in it becoming encapsulated in a bubble, which rises slowly towards the top of the screen. To kill the nasty, burst the

bubble or, in other words, stamp on the sucker. A piece of fruit springs forth, which can then be stamped on for bonus points. There are myriad features in the form of magic targets and

bonus letters. Also fire, thunder and water bubbles will help destroy the bullies quickly. Watching the water bubbles

III DECEMBER 1987-6 JANUARY 1988

## **Private image**

Peter Worlock tests out JCL's Digipic video digitiser for the Amiga.

last of us would like to be able to helps with focusing, contrast and other produce the kind of graphics the Mirrorsoft Cinemaware range have made commonplace in games like Defender of the Crown and, most recently, King of Chicago. The trouble is that most of us do not have the artistic talents to draw anything except Invasion of the Matchstick Men, but if you have an Amiga, a video camera and a spare \$300, an easy solution is at hand.

The JCL Digipic video digitiser allows you to canture video images and use them in almost any Amiga software. That is reputed to be how Palace Software translated the realistic movements of the pro-

tagonists in Barbarian. Now you, too, can have your friends act scenes from your latest epic, grab sequences using Digipic, touch up the images in Deluxe Paint and then use the resulting graphics in VOUL masterpiece.

The digitiser is a large black box. about the size of two external disc drives, which connects to the Amiga parallel port. A cable from the video camera plugs into

the rear of the Digipic unit and then you power up everything, load the software and start shooting.

Although the system is designed specifically to work with a video camera you can use any other suitable video source, such as a video recorder, which is what I used for this review. A suitable cable is easily available from most hi-fi and electronics stores but I made one by butchering two spare TV interface leads.

### Hooked to the TV

Using the software was simple. If you are using a camera it helps to have a separate monitor in addition to the Amiga monitor for displaying the camera image. That

initial setting-up. With a video recorder, of course, you can leave it hooked to the TV as usual.

When you have a suitable image you select Digitise from the menu bar and Diginic grabs a frame and displays it on the Amiga monitor. An additional video display is not essential, since you can have Diginic constantly grab a sequence of images and dienlay them successively on the Amiga. When you see one you like you press the Escape key and Digipic keeps that one and breaks out of the loop.

I found the system gave excellent results from both TV signals and pre-

has the EGSA adaptor. All this is not to say that Digiple cannot work in colour . . . but the process is a little more complex. Supplied with the package are three colour filters in red, green and hloe. These are fitted to your camera and used in sequence. Digipic takes three images with the filters masking out the corresponding colours and the three resultine pictures are merged to give a fairly accurate colour image.

#### Rock-steady camera How accurate it in depends on the quality

of the camera, lighting, and having a rocksteady camera during the three shots. The results, the manual implies. range from excellent to poor. Once you have captured a suitable image the first thing to do is to save it. The Digipic software allows you to save in a variety of formats, depending on what you want to do with the image Since a screenful o. bit-nlanes occupies a good deal of memory you can save a file in com-



recorded video tapes. Digipic really works in mono and will give first-class black and white images using a 16 level grey scale. An additional adaptor is supplied to reside between Digipic and the Amiga which gives an extended 32-level grey scale and this produces correspondingly better images.

### Masking out

The only disadvantage to using extended grey scale pictures is that the adaptor must be present on the Amiga whenever the images are to be loaded, even if you want to put them into another program. This means that you cannot pass on a disc of EGSA pictures unless the recipient also

pressed form which saves disc space but might give problems if your other software cannot read the format.

The other main option is to specify the number of bit-planes to be saved. Digipic uses six planes in monochrome to store higher-resolution pictures than most software. If you want to load the image back into Digipic you must save six planes.

Some programs like Deluxe Paint will not accept six planes so you can choose four- or five-plane formats. Generally, four are used for monochrome pictures and five planes for colour.

Finally, you also have the choice of saving only a part of the whole screen image, which uses considerably less disc space.



The software also provides a series of image-processing tools which can be used to enhange a poor-quality image. They include the shillty to affect the brightness of each pixel, the contrast between neighbouring pixels and the opportunity of clipping very light and very dark grey levels from the scale.

Two other options allow you to spread the range of greys across the full I levels, producing a more even tone. It is great fun experimenting with these tools and some interesting graphse effects can be produced but I found that, from the video recorder at gast, the first image produced by Digiple was excellent and owing the tools always resulted in a reduction in outlier.

The only other comment on the software tools is at a fish form the basis of my only complaint. So, form the basis of my only complaint. So, if the system, and it is a minor one around, Some of the look take time to complete their task but there is no indicator of this if you guil down a menu indicator of this if you guil down a menu while one muse processing is taking place you get; whether the solution is the place you get; whether the solution is not the main picture. I see of the "busy" icon on the muses pointer would cure this simule fault.

More interesting is the ability we port your distitised image into Deluxe Paint or something similar and you can then touch up lines, altering the contrast and adding colour. From there you can do almost anything with it, including using the resulting images in your programs, including Basic.

The real question is ultimately what you might expect to do with a video digitiser and the homest answer for the moment is 'not much'. The system is great fun to play with and, provided that you are prepared to do a good deal of work touching-up pictures you can use them in a variety of programs.

If you do not have a video camera all the images available to you are strictly copyright and you could not use them in any commercial program.

#### **Estate agents**

Perhaps the major use will be in compiling a video database. With a camera attached to a copying stand, out could create a file of Amiga pictures - of photographs, box occers, technical drawings, architects' plans and so on. Estate agents could hold a database of properties for rask, complete with a picture of each house. These can be compiled into one of several commercial database packages which support pictorial as well as extrud data.

Soffice it to say that if you can think of an application which requires, or would be improved by the ability to use real-world images on your Amiga, the Digipic system is excellent. The hardware was well-built and reliable, while the software is virtualty flawless.

Product: JCL Digiple Price £299 plus VAT Supplier Precision Software, 6 Park Terrace, Worcester Park, Surrey KT4



## Disciple on the cheap?

he +D is full of surprises. The first is the size of the box - scarcely big enough to hold a large nanerback; the second is the interface - not much bigger then a pack of cards and probably not so thick. I was expecting something similar to the Rockfort Disciple but this is a new and different beast. Next, tidy; gone is the hot plastic Disciple box with the +2 dangling unposity above: this is metal, sticks out behind and runs cool - only one PAL instead of two: with a near LED aton which shows it is powered - it is extinguished during disc operations.

#### Size

It is not much wider than the edge connector in front: there is just room for disc ribbon cable and printer ribbon cable

connectors - standard BBC types - at the back. No joystick port, no through port - get out your microslots - no network, no disable button.

At first it erashed in 198K mode; with my arragance 1 had started without reading the manual. The first page of text indicates clearly that for a

128+2 "on into EDIT mode and select SCREEN to avoid problems later". Problems? They mean it. This is fiddly and could perhaps have been avoided but I soon got used to it. Once operating, it is very like the Disciple but with improvements.

#### **Formatting**

There is the same formatting - up to 800K per disc depending on drive; two drives served - and all the usual facilities for saving, loading, verifying, re-naming and conving files. There are many files, too -Basic, code, screen, number and character arrays. Microdrive files, "special" files and execute - auto-running code - files; and 48K and 128K snapshots. The snapshot button next to the LED

John Wase reviews the Miles-Gordon + D Disc Interface

takes a snapshot of the whole memory, either 48K or 128K. It in not intended as a comperitor of Multiface interfaces and will not nermit Pokes; nor is there a toolkit. I tested it with Tasword +2 with the Disciple patch, as saved on a Disciple. It tooded it admirably; it really is compatible with Disciple discs and the snapshot button worked, taking around 15 seconds to save the whole 128K on my geriatric drive; re-loading took an impressive eight

The spanshot button plus other keys will also dump small screens on almost any

are other afterations in the operating

The system file now boots to a different location; in the Disciple it loaded first then moved down into the operating area, with some duplication. With this and the removal of the network code there is now some 2-75K of paged RAM left for the user for example, to insert extension Basic directly or from the boot program to allow random acress files, the hardware is arranged for

#### Onirks

and 7m+D uses 2, 3 and 4, the same as Microdrives it is therefore no longer Microdrive or Discovery-compatible - no noint as a disable button; nor ZX printer-

compatible, but should run with other peripherals like Kompston interfaces, mice and midi Additional oulrks Disciple had with its streams and channels have also been sorted

The 24-page A5 manual is well produced and clearly

written with examples and answers to potential queries. Sources of information for more advanced users are indicated, principally from IN-

BUG, the user group, which has a useful hot-line for burning problems The review sample had several PCB modifications, proof that testing had revealed problems which had been rectified: my issue seemed fairly bug-free. Notches for ribbon cable connectors were handfiled in the metal.

I enquired and was told that production interfaces would have re-designed PCBs and properly-notched cases with the company logo painted on.

I thought the +D worked well. It works with all Spectrums except the +3 - a pity this has no ROMCS line - and on its own at \$49.95 or with a 780K capacity drive at \$129.95 offers good value for those seeking an upgrade.



printer and A4 screens on Enson-compatibles with full grey scale

Finally, unlike Disciple, you can abort any pointended snapshot: I dropped # disc on it by mistake by pressing "X", a useful

The printer port works well - it must to do screen dumps - and will work as a stand-alone parallel interface. Unlike the Disciple, you do not need to boot the system disc or load a systems tape. This has been re-designed from Disciple days and is now much easier to follow: I preferred the blue screen, too.

### Alterations

I noticed, however, that single density systems are no longer catered for. There

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## A game of squares

### A Campbell Black

his program is a game for two players. It is based on the pencil and paper game where you join the dots and try to complete more boxes than your opponent. All the playing instructions are included with the program. If you are using a Spectrum with a rubber keyboard, the cursor keys are CAPS SHIFT with 5, 6, 7 or 8. Otherwise, the ordinary cursor keys do the work.

The program shows how windows can be used to make a simple game look far more appealing than it would when printing things straight on to the screen.



```
1000 REM ***********
1010 REM A SAME OF SQUARES
1020 REM Author: C. Black
1040 REM
               1987
1050 REM
           VERSION 2.2
1060 REM ***********
1070 REM
1075 RFM
1080 REM ** INITIALISE **
1100 GO SUB 9500
1160 DIM N$(2,12)
1165 DIM C$(4)
1180 LET FLAGS=0
1185 INK 9: POKE 23658.8
1190 LET WS="GAME WINNER": LET US="MATCH WINNER"
1220 REM **DRAW SCREEN**
1240 BORDER S: PAPER S: INK Ø: CLS
1260 PRINT AT 1.1; PAPER 6; INK 9:" A GAME OF SQUARES ACR 1987 ": PAPER 5:AT 1
.0: CHR# 132:AT 2.0:: GO SUB 9300
1280 PLOT 7,159: DRAW 241.0: DRAW 0.9: DRAW -241.0: DRAW 0.-9
1300 PRINT AT 3.0; CHR$ 132: FOR n=4 TO 16: PRINT AT n.0; CHR$ 133: NEXT n
1320 PRINT AT 17.0:: GO SUB 9350
1340 PLOT 7,39: DRAW 113,0: DRAW 0,113: DRAW -113,0: DRAW 0,-113
1360 PRINT AT 3,16; CHR$ 132: FOR n=4 TO 16: PRINT AT n,16; CHR$ 133: NEXT n
1380 PRINT AT 17,16:: 60 SUB 9350
1400 PLOT 135,39: DRAW 113,0: DRAW 0,113: DRAW -113,0: DRAW 0,-113
1420 FOR n=3 TO 16: PRINT PAPER 3:AT n.17:"
                                                           ": NEXT p
1440 PRINT PAPER 4:AT 4.18:n$(1); PAPER 6:AT 15,18:n$(2)
1460 PRINT PAPER 7; AT 9, 18; "GAME "; AT 9, 25; "GAMES"; AT 10, 18; "SCORE"; AT 10, 25: "
1480 PRINT PAPER 7:AT 7,20; "00";AT 7,26; "00";AT 12,20; "00";AT 12,26; "00"
1500 PRINT AT 19.0:CHR$ 133; PAPER 6: GAME "; PAPER 7; "00"; PAPER 6: OF "; PAPE
R 7: "00°
1520 PRINT AT 20.0:: 60 SUB 9400
1540 PLOT 7,15: DRAW 105,0: DRAW 0.9: DRAW -105,0: DRAW 0.-9
1560 PRINT AT 18,14; CHR$ 132; PAPER 3;
1580 PRINT AT 19,14; CHR$ 133; PAPER 3;*
1600 PRINT AT 20,14; CHR$ 133; PAPER 3;"
```

1620 PRINT AT 21.14:: GO SUB 9450

1640 PLOT 7.15: DRAW 105.0: DRAW 0.9: DRAW -105.0: DRAW 0.-9 1660 PLOT 119,7: DRAW 129,0: DRAW 0,25: DRAW -129,0: DRAW II,-25

```
1720 PLOT 143.87: DRAW 41.0: DRAW 0,17: DRAW -41.0: DRAW 0,-17
 1740 FLOT 199,87: DRAW 41.0: DRAW 0,17: DRAW -41.0: DRAW 0,-17
 1760 PLOT 207, 111: DRAW 17, 0: DRAW 0.9: DRAW -17, 0: DRAW 0.-9
 1780 PLOT 159, 111: DRAW 17, D: DRAW 0.9: DRAW -17, 0: DRAW R. -9
 1800 PLOT 207,71: DRAW 17.0: DRAW 0.9: DRAW -17.0: DRAW 9.-9
 1820 PLOT 159.71: DRAW 17.0: DRAW 0,9: DRAW -17.0: DRAW 0,-9
 1840 GO SUB 3040
 1850 PRINT PAPER S; INK 9:AT 18.15; " "; INVERSE 1; "I"; INVERSE 0; "NSTRUCTIONS"
 1852 PRINT PAPER B: INK 9;AT 19,15;" ": INVERSE 1:"S": INVERSE 0:"TART";AT 20,1
 5: PRESS A KEY
 1855 REEP . 05.15
 1860 PAUSE 0: LET IS=INKEYS
1865 IF Is="1" THEN GO SUB 9000:: GO SUB 3242: GO SUB 9200: GO TO 1840
 1878 IF Is="S" THEN GO TO 1980
 1982 GO TO 1849
 1895 REM **NEW PLAYERS NAMES **
 1900 BEEP .05.10
1905 PAPER II: 60 SUB 3242
1910 LET MN=1: FOR Y=4 TO 15 STEP 11: LET X=19
1911 LET PS="
1912 PRINT AT 18.15: INK 9: "INSERT NAME OF": AT 19.15: "PLAYER ": NN; " THEN": AT 20.
15: "PRESS ": INVERSE 1: "ENTER"
1915 PRINT AT Y.X; FLASH 1:" ":
1920 PAUSE Ø: LET Is=INKEYS: BEEP .005.20
1925 IF Is>="A" AND Is<="Z" AND X<=28 THEN LET PS(X-18)=18: PRINT AT Y, X; Is: LE
T X=X+1: GO TO 1915
1928 IF IS=CHRS 12 THEN PRINT AT Y, X; ": LET X=X-(1 AND X>19): LET PS(X-18)="
°: GO TO 1915
1930 IF 18=CHR$ 13 THEN PRINT AT Y.X;" ": LET N$(NN.2 TO 11)=P$: LET NN=NN+1: N
EXT Y: GO TO 2000
1940 GO TO 1920
1960 REM
1980 REM
1990 REM **GAMES IN MATCH**
2000 LET P$=" ": LET Y=19: LET X=12
2010 GO SUB 3242: PRINT INK 9:AT 18.15: "INSERT MAXIMUN":AT 19.15: "NUMBER OF GAM
ES": AT 20.15: "IN MATCH"
2020 PRINT AT Y. X: FLASH 1:" "; FLASH 0;" "
2030 PAUSE 0: LET 1$=INKEY$; BEEP .005.20; IF I$<"0" OR I$>"9" THEN GO TO 2030
2035 LET P$(1)=I$: PRINT AT Y.X:P$(1); FLASH 1:" "
2040 PAUSE 0: LET IS=INKEYS: BEEP .005,20: IF IS=CHRS 13 THEN LET PS="0"+PS(1):
 50 TO 20A0
2050 IF Is ("0" OR Is) "9" THEN GO TO 2040
2055 LET P$(2)=18
2060 LET MATCH=VAL PS: PRINT AT Y, X:PS: IF MATCH=0 THEN GO TO 2000
2065 GO SUB 3242: PRINT INK 9:AT 18.15: "PRESS ": INVERSE 1: "ENTER": INVERSE 0:"
 TO"; AT 19, 15; "CONFIRM OR ANY"; AT 20, 15; "KEY TO CORRECT"
2070 PAUSE 0: IF INKEYS CHR$ 13 THEN GO TO 2000
2080 LET GAME=1: LET G1=0: LET G2=0
2085 REM **NEW GAME **
2086 PRINT AT 19.6; "0" AND GAME(10; GAME
2100 GO SUB 3242: PRINT AT 18,15: INK 9: PAPER 8::" CURSOR KEYS": AT 19,15:" MO
VE ARROWS. ": AT 20,15; INVERSE 1; "ENTER"; INVERSE 0; " DRAWS LINE"; BEEP .05.15
2200 DIM hs(7.7): DIM vs(7.7): DIM bs(6.6)
```

2240: LET sc1=0: LET sc2=0: LET c\$=CHR\$ 144+CHR\$ 145+CHR\$ 146+CHR\$ 147: LET x=1:

1680 PLOT 143,47: DRAW 97.0: DRAW 0.9: DRAW -97.0: DRAW 0.-9

2220 IF FLAGS THEN GO SUB 9200: GO SUB 3040

LET y=1: LET CURPL=0: LET FLAG=0

```
2260 IF NOT FLAG THEN LET CURPL=NOT CURPL
2280 IF FLAG THEN LET FLAG=NOT FLAG
2320 PRINT PAPER 7:AT 7.20:"0" AND SCICIO:SCI:AT 12.20:"0" AND SC2CIO:SC2
2340 IF SC1>=19 OR SC2>=19 THEN GO TO 3260: REM END OF GAME SEQUENCE
2345 IF SC1+SC2=36 THEN GO TO 3400
2350 PRINT AT 4.18: PAPER 4: FLASH CURPLINS (1):AT 15.18: FLASH D: FLASH NOT CUR
PL: PAPER A:N$(2)
2360 PRINT AT 16-2*u, 2*x; OVER 1; PAPER CODE B$(X,Y)-25;c$( TO 2);AT 17-2*u, 2*x;
c$(3 TO )
2380 PAUSE On LET INCODE INKEYS
2400 IF i=8 AND c$=CHR$ 144+CHR$ 145+CHR$ 146+CHR$ 147 THEN GO SUB 3180; LET x=
x-(1 AND x>1); 60 TO 2360
2420 IF i=9 AND c$=CHR$ 148+CHR$ 149+CHR$ 150+CHR$ 151 THEN GO SUB 3180: LET x=
x+(1 AND x<6); GO TO 2360
2440 IF i=10 AND c$=CHR$ 152+CHR$ 153+CHR$ 154+CHR$ 155 THEN GO SUB 3180: LET u
=u-(1 AND u>1): GO TO 2360
2460 IF i=11 AND cs=CHR$ 156+CHR$ 157+CHR$ 158+CHR$ 159 THEN GO SUB 3180; LET u
=y+(1 AND y<6): GO TO 2360
2480 IF i>=8 AND i<=11 THEN GO SUB 3180: FOR 7=1 TO 4: LET Cs(7)=CHR$ (143+7+(1
-8)*4): NEXT Z: GO TO 2360
2500 IF 1<>13 THEN GO TO 2380
2520 LET i=((CODE c$(1)-144)/4)+8
2580 IF i=8 AND v$(x,u)=" " THEN LET v$(x,u)="*": GO TO 2650
2600 IF i=9 AND v$(x+1,y)=" " THEN LET v$(x+1,y)="*": GO TO, 2650
2620 IF i=10 AND bs(x,u)=" " THEN LET bs(x,u)="#": GO TO 2650
2640 IF imil AND h$(x,u+1)=" " THEN LET h$(x,u+1)="#"; GO TO 2650
2645 GO TO 2380
.2650 GO SUB 3180
2655 PLOT (x+(i=9))*16, (u+(i=11))*16+32: DRAW 16*(i=10 OR i=11), 16*(i=8 OR i=9)
2657 BEEP .05,2
2660 IF i<>8 THEN GO TO 2760
2680 IF v$(x+1.u)="*" AND h$(x,u)="*" AND h$(x,u+1)="*" THEN LET XX=X: LET YY=Y
: GO SUB 3200
2700 IF X=1 THEN GO TO 2260
2720 IF vs(x-1.u)="*" AND hs(x-1.u)=""" AND hs(x-1.u+1)="*" THEN LET XX=X-1: LE
T YY=Y: GO SUB 3200
2740 GO TO 2260
2760 IF i<>9 THEN GO TO 2860
2780 IF v$(x,y)="*" AND h$(x,y)="*" AND h$(x,y+1)="*" THEN LET XX=X: LET YY=Y:
GO SUB 3200
2800 IF X=6 THEN GO TO 2260
2820 IF v$(x+2,q)="*" AND h$(x+1,q)="*" AND h$(x+1,g+1)="*" THEN LET XX=X+1: LE
T YY=Y: GO SUB 3200
2840 50 TO 2240
2860 IF i<>10 THEN GO TO 2960
2880 IF h$(x,y+1)=*** AND v$(x,y)=*** AND v$(x+1,y)=*** THÊN LET XX=X; LET YY=Y
 : GO SUB 3200
2900 IF Y=1 THEN GO TO 2260
2920 IF h$(x,u-1)="*" AND v$(x+1,u-1)="*" AND v$(x,u-1)="*" THEN LET XX=X: LET
 YY=Y-1: 60 SUB 3200
2940 GO TO 2260
2960 IF h$(x,y)="*" AND v$(x,y)="*" AND v$(x+1,y)="*" THEN LET XX=X: LET YY=Y:
GO SUB 3200
2980 IF Y=6 THEN GO TO 2260
3000 IF h$(x,y+2)="*" AND v$(x+1,y+1)="*" AND v$(x,y+1)="*" THEN LET XX=X: LET
YY=Y+1: GO SUB 3200
3020 GO TO 2260
3040 REM *** DRAW DOTS ***
3060 FOR n=3 TO 16: PRINT PAPER 7;AT n,1;*
                                                         ": NEXT =
```

```
3100 FOR H=1 TO 7; LET xc=16
 3120 FOR a=1 TO 7: PLOT xc,yc
 3140 LET xc=xc+16: NEXT a: LET yc=yc+16: NEXT u
 3160 RETURN
 3170 REM **PRINT ARROWS*
 3180 PRINT OVER 1: PAPER 8:AT 16-2*u,2*x;c*( TO 2):AT 17-2*u,2*x;c*(3 TO ): RET
 LIAN
 3190 REM **COMPLETED SOUARE**
 3200 IF B$(XX,YY)<>" THEN RETURN
 3220 IF CURPL THEN LET B$(XX,YY)=CHR$ 29: LET FLAG=1: LET SC1=SC1+1: PRINT OVE
 R 1: PAPER 4:AT 16-2*YY, 2*XX:" ";AT 17-2*YY, 2*XX:" ": BEEP .05,5: RETURN
 3240 LET B$(XX, YY)=CHR$ 31: LET FLAG=1: LET SC2=SC2+1: PRINT OVER 1: PAPER 6:AT
  16-2*YY. 2*XX:" ":AT 17-2*YY. 2*XX:" ": BEEP . 05,5: RETURN
 3241 REM ** CLEAR COMMAND BOX **
 3242 FOR N=18 TO 20: PRINT PAPER 3:AT N.15:"
                                                              ": NEXT N: RETURN
 3250 REM ** END OF GAME **
 3251 REM **GAME WON**
 3255 GO SUB 3242
 3260 GO SUB 3242
 3262 IF SC1>=19 THEN LET G1=G1+1:
 3265 IF SC2>=19 THEN LET G2=G2+1:
3267 PRINT AT 7,26:00 AND G1<10:61:AT 12,26:00 AND G2<10:G2
3270 IF GI>INT (MATCH/2) OR G2>INT (MATCH/2) THEN GO TO 3500
3275 IF G1+G2=MATCH THEN GO TO 3600
3280 PRINT AT 5.18: PAPER 4: FLASH 1:W$ AND SC1>=19
3282 PRINT AT 14.18: PAPER 6: FLASH 1:W$ AND SC2>=19
3290 FOR N=1 TO 3: BEEP .1.N-1: BEEP .1.N: NEXT N: BEEP .2,N: NEXT N
3300 PRINT INK 9: PAPER B:AT 18.15: PRESS ANY KEY":AT 19.15: FOR NEXT GAME"::
 PAUSE III
3305 GO SUB 3242: LET FLAGS=1: PRINT PAPER 3:AT 5.18:*
                                                                   ":AT 14, 18: "
3306 PLOT 143.56: DRAW 97.0: PLOT 143,135: DRAW 97.0
3310 LET GAME=GAME+1: GO TO 2005
3330 FOR N=1 TO 3: BEEP .1.N-1: BEEP .1.N: NEXT N: BEEP .2.N: NEXT N
3340 FOR n=1 TO 6: BEEP .1,n: BEEP .1,n+1: BEEP .1,n+2: NEXT n: BEEP .2.n: BEEP
.2.N: BEEP .3.N+1
3370 STOP
3400 REM **GAME DRAWN**
3410 GO SUB 3242: PRINT INK 9:AT 18,17; INK 9: PAPER 8:" "; FLASH 1:"GAME DRAW
N"; FLASH 0;" ";; BEEP .1.11; BEEP .1.2; BEEP .1,3; PRINT INK 9; PAPER 8:AT 19.
15;" PRESS ANY KEY"; AT 20,15;" TO REPLAY"; PAUSE 0: LET FLAGS=1: GO TO 2005
3500 REM **MATCH WON**
3505 GO SUB 3242
3520 PRINT AT 5.18: PAPER 4: FLASH 1:US AND GIDINT (MATCH/2)
3525 PRINT AT 14,18; PAPER 6; FLASH 1:U$ AND G2>INT (MATCH/2)
3530 FOR n=1 TO 6: BEEP .i.n: BEEP .i.n+1: BEEP .i.n+2: NEXT n: BEEP .2.n: BEEP
.2,N: BEEP .3,N+1
3535 PRINT AT 18,15; PAPER 8; INK 9;" "; INVERSE 1:"N"; INVERSE 0;"EW MATCH"; AT
19,15;" ": INVERSE 1:"Q": INVERSE 0:"UIT": AT 20,15:" PRESS A KEY"
3540 PAUSE 0: LET IS-INKEYS
3542 IF Is="Q" THEN STOP
3544 IF Is="N" THEN GO TO 355@
3545 GO TO 3540
3550 GO SUB 3242: PRINT PAPER 3:AT 5.18:*
                                                     ":AT 14.18:"
3552 PLOT 143,56: DRAW 97.0: PLOT 143,135: DRAW 97.0
3555 GO SUB 3242: PRINT PAPER B: INK 9:AT 18,15: ": INVERSE 1: "S": INVERSE 0:
AME PLAYERS": AT 19,15; " "; INVERSE 1; "N"; INVERSE 0; "EW PLAYERS"; AT 20,15; PRES
5 A KEY*
3556 PAUSE 0: LET 1$=INKEY$
3558 IF IS="N" THEN GO TO 3570
3559 IF IS="S" THEN GO TO 3580
```

```
3560 GO TO 3556
3570 GO SUB 9200: GO SUB 3040: PRINT PAPER 8:AT 4,18:"
                                                                   *+AT 15.18+*
          ": GO SUB 3590: GO TO 1895
3580 GO SUB 9200: GO SUB 3040: PRINT PAPER 8:AT 14.18:N$(1):AT 15.18:N$(2): GO
SUB 3590: GO TO 1990
3590 PRINT PAPER 8:AT 7,20:"00";AT 7,26:"00";AT 12,20:"00";AT 12,26:"00";AT 19,
6: "06": AT 19,12: "00": LET FLAGS=0: RETURN
3600 REM **MATCH DRAWN**
3610 GO SUB 3242: PRINT AT 18,15: INK 9; " MATCH DRAWN "
3620 FOR n=1 TO 6: BEEP .1.n: BEEP .1.n+1: BEEP .1.n+2: NEXT n: BEEP .2.n: BEEP
.2.N: BEEP .3.N+1
3630 PRINT INK 9:AT 19.15: PRESS ANY KEY": PAUSE 0: GO SUB 3242: GO TO 3535
9000 REM **INSTRUCTIONS**
9020 RESTORE 9100
9030 FOR M=1 TO 2
9035 GO SUB 3242
9036 GO SUB 9200
9040 FOR P=3 TO 16: READ AS: PRINT AT P.1:: FOR 0=1 TO LEN AS: BEEP .005.10: PRI
NT A$(0):: NEXT O: NEXT II
9050 PRINT AT 19.15: PAPER B: INK 9: PRESS ANY KEY": BEEP .05.15: PAUSE 0
90A0 NEXT M: RETURN
9100 DATA "","A Game for two", "glayers.", ". "Join the dots", "with a line", "and c
omplete a". "square to win". "a point. ". "". "One line per", "turn. An extra", "turn w
hen uou". "win a coint."
9110 DATA "First player", "to score more", "than 18 points", "wins the", "current ga
me. ", "", "Your aim is to", "win more than", "half of the", "maximum no.", "of games i
   . "the match. ". " ". "GOOD LUCK! "
9190 REM **CLEAR GAME BOX**
9200 PAPER 7: FOR K=3 TO 16: PRINT AT K.1:*
                                                        ": NEXT K: RETURN
9300 PRINT CHR$ 129:: FOR N=1 TO 29: PRINT CHR$ 131:: NEXT N
9310 PRINT CHR$ 130: RETURN
9350 PRINT CHR$ 129;: FOR N=1 TO 13; PRINT CHR$ 131;: NEXT N
9351 PRINT CHR$ 130:: RETURN
9400 PRINT CHR$ 129:: FOR N=1 TO 12: PRINT CHR$ 131:: NEXT N
9410 PRINT CHR$ 130:: RETURN
9450 PRINT CHR$ 129: FOR N=1 TO 15: PRINT CHR$ 131:: NEXT N
9460 PRINT CHR$ 130; RETURN
9500 REM **UDGs**
9510 RESTORE 9400
9520 FOR n=USR "a" TO USR "a"+127
9530 READ d: POKE n, d: NEXT n: RETURN
9600 DATA 0,0,0,4,12,28,63,127,0,0,0,0,0,0,0,248,248,127,63,28.12.4.0.0.0.248.248.
6.48.32.0.0.0.0.0.0.0
9610 DATA 3.3.3.3.0.0.0.192.192.192.192.192.3.3.31.15.7.3.1.0.192.192.248.240.
224, 192, 128, 0, 0, 1, 3, 7, 15, 31, 3, 3, 0, 128, 192, 224, 240, 248, 192, 192, 3, 3, 3, 3, 3, 3, 0, 0, 0, 19
2.192.192,192,192,0,0,0
```

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rom now on we are requesting that you include a suitable stamped addressed envelope for return of your submission. Not enclosing a suitable SAE will mean that your program will not be returned. You have heart weren't.

been warned.

With regards to future submissions we are looking for articles on programming in seneral, utility programs and applications

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Please do not telephone regarding any queries or problems with the listings. If you cannot get a program listing in the magazine to work, write to me, care of Popular Computing, and I will deal with it as soon as possible.

If there were problems then we will let you know. Corrections normally appear a couple of weeks later.

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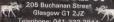
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# The programmers united . . .

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disc. The companies are too big to argue with so we sit and take it. The Advertising Standards Authority (ASA) has had many a complaint about software being advertised but not ready. The ASA has no real teeth, only guns, so it cannot do much apart from suck.

I am a freelance games designer and graphic artist and it annoys me that all the foregoing happens and companies get away

with it.

In one case a company was asked by the ASA why a certain sports game had not been released; the reason given was that

the programmer had died.

A good reason but the only problem was that he was still alive. What is more, he had a hell of a time convincing software

companies otherwise.

I have thought for some time that the only way to prevent this kind of nonsense would be to have a Computer Program-

It would work only if the vast majority of programmers, designers, artists and musicians joined the CPU. If all the big names like Braybrook, Rob Hubbard, Tony Crowther, Bernie- Drummond and Tag

could be persuaded ## become members the union might be able to gain influence with companies which were naughty.

companies which were haughty. If a software house pre-advertised a game the CPU could withdraw all its members from working for that company. If a firm charged too much for a game a programmer could ask the CPU to boycott the company. On the plus side for the companies there could be a realistic wages scale.

The union could also pursue the question of violence and sexism in games - the latter is starting to annoy me. In short, the CPU could be a substitute for the governing body which is badly needed in the software industry.

There are far too many sad stories of programmers being ripped off and, to a lesser extent, a software company being cheated by a programmer.

I am not a red-blooded socialist who demands power for the worker, in fact, the day I vote Labour will be the day full-price software becomes extinct.

I have been very lucky in that the vast majority of companies for which I have worked in the past have played - and paid - reasonably fair. Others have been less fortunate.

Many other leisure industries have a union, so surely now that the software market has come of age it is about time in

have a CPU. It could benefit everyone if run properly.

Neil Scrimgeour (Sigma Software Designs)

## PUZZLE

## Deck of cards

ake six pieces of card and write a single digit on each. You can use only the digits from 1 to 9 - zero is not allowed - but you can write the same digit or digits more than once if you wish. This must be done to enable you to perform the

following actions: Place the cards in a row to form a six-

digit number divisible by three.

Move the right-hand end card to the left-hand end so that the new number is divisible by five.

Repeat this procedure of moving a card from the right end to the left four more times, so that at each stage the number formed is divisible by seven, 11, 13 and 17 respectively.

By divisible we mean exactly, without a remainder. Can you determine what our starting number must be?

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